

Recombinant Human PPP1R14A, His-tagged

Cat. No. PPP1R14A-27585TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length, Human CPI17 alpha (amino acids 1-147) with N terminal His tag; 167 amino acids, with a predicted MWt 18 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	147 amino acids
Description	The protein encoded by this gene belongs to the protein phosphatase 1 (PP1) inhibitor family. This protein is an inhibitor of smooth muscle myosin phosphatase, and has higher inhibitory activity when phosphorylated. Inhibition of myosin phosphatase leads to increased myosin phosphorylation and enhanced smooth muscle contraction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Conjugation	HIS
Molecular Weight	18.000kDa inclusive of tags
Tissue specificity	Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.06% EDTA, 0.02% DTT, 10% Glycerol
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAAQRLGKRV LSKLQSPSRA RGPGGSPGGL QKRHARVTVK YDRRELQRRL DVEKWIDGRL EELYRGMEAD MPDEINIDEL LELESEEERS RKIQGLLKSC GKPVEDFIQE LLAKLQGLHR QPGLRQPSPS HDGSLSPQLD RARTAHP
Sequence Similarities	Belongs to the PP1 inhibitor family.
GENE INFORMATION	
Gene Name	PPP1R14A protein phosphatase 1, regulatory (inhibitor) subunit 14A [Homo sapiens]
Official Symbol	PPP1R14A
Synonyms	PPP1R14A; protein phosphatase 1, regulatory (inhibitor) subunit 14A; PPP1INL; protein phosphatase 1 regulatory subunit 14A; 17 kDa PKC potentiated inhibitory protein of PP1; 17 KDa protein; CPI 17; PKC potentiated inhibitory protein of PP1;
Gene ID	94274
mRNA Refseq	NM_001243947
Protein Refseq	NP_001230876
MIM	608153

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Uniprot ID	Q96A00
Chromosome Location	19q13.1
Pathway	Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
Function	protein phosphatase inhibitor activity;

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